

1.6.1 Embodied Energy of Windows in the U.S.

<u>Window Type</u>	<u>Embodied Energy (MMBtu/SF) (1)</u>	<u>CO2 Equivalent Emissions (lbs/SF)</u>
Aluminium	0.59	71.24
PVC-clad Wood	0.37	62.15
Wood	0.33	51.83
Vinyl (PVC)	0.49	82.31
Curtainwall Viewable Glazing	0.27	61.6
<u>Curtainwall</u>		
Opaque glazing (with insulated backpan)	0.18	32.16
Spandrel panel (with insulated backpan)	0.1	9.53

Note(s): 1) Embodied Energy: Energy use includes extraction, processing, transportation, construction, and disposal of each material.

Assumptions: Assumes a Low rise building. Values are general estimations for the U.S. 60 year building lifetime. Low-e glass.

Source(s): Athena Institute, Athena EcoCalculator for Assemblies v.2.3. 2007, Available at www.athenasmi.org/tools/ecoCalculator/index.html